

## Asst. Prof. KEYVAN FIRUZİ

### Personal Information

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### International Researcher IDs

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Publons / Web Of Science ResearcherID: AGQ-4876-2022

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### Education Information

Doctorate, Sharif University of Technology, Electrical Engineering Department, Iran 2014 - 2019

### Foreign Languages

English, C1 Advanced

### Research Areas

High Voltage Technique, Engineering and Technology

### Academic Titles / Tasks

Associate Professor, Middle East Technical University, Faculty of Engineering, Department of Electrical and Electronics Engineering, 2021 - Continues

### Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Adversarial Partial Discharge Signal Reconstruction and Denoising with an Encoder-Decoder Network**  
FİRUZİ K.  
IEEE Access, vol.12, pp.132271-132278, 2024 (SCI-Expanded)
- II. **Distinguishing polymeric insulators PD sources through RF PD measurement**  
Abedini-Livari A., Firuzi K., Vakilian M.  
IET GENERATION TRANSMISSION & DISTRIBUTION, vol.14, no.21, pp.4859-4865, 2020 (SCI-Expanded)
- III. **A Hybrid Transformer PD Monitoring Method Using Simultaneous IEC60270 and RF Data**  
Firuzi K., Vakilian M., Phung B. T., Blackburn T. R.  
IEEE TRANSACTIONS ON POWER DELIVERY, vol.34, no.4, pp.1374-1382, 2019 (SCI-Expanded)
- IV. **Online monitoring of transformer through stream clustering of partial discharge signals**  
Firuzi K., Vakilian M., Phung B. T., Blackburn T.

IET SCIENCE MEASUREMENT & TECHNOLOGY, vol.13, no.3, pp.409-415, 2019 (SCI-Expanded)

**V. Partial Discharges Pattern Recognition of Transformer Defect Model by LBP & HOG Features**

Firuzi K., Vakilian M., Phung B. T., Blackburn T. R.

IEEE TRANSACTIONS ON POWER DELIVERY, vol.34, no.2, pp.542-550, 2019 (SCI-Expanded)

**VI. Transformer components impact on compatibility of measured PDs: comparison of IEC60270 and RF methods**

Firuzi K., Vakilian M., Toan Phung B., Blackburn T.

HIGH VOLTAGE, vol.4, no.1, pp.33-40, 2019 (SCI-Expanded)

**VII. A Novel Method for Differentiating and Clustering Multiple Partial Discharge Sources using S Transform and Bag of Words Feature**

Firuzi K., Vakilian M., Darabad V. P., Phung B. T., Blackburn T. R.

IEEE TRANSACTIONS ON DIELECTRICS AND ELECTRICAL INSULATION, vol.24, no.6, pp.3694-3702, 2017 (SCI-Expanded)

## **Refereed Congress / Symposium Publications in Proceedings**

**I. Line Composite Insulators Condition Monitoring through Partial Discharge Measurement**

Abedini-Livari A., Eshaghi-Maskouni M., Vakilian M., Firuzi K.

34th International Power System Conference (PSC), Tehran, Iran, 9 - 11 December 2019, pp.595-600

**II. Multi-source Partial Discharge Signals Discrimination by Six Bandpass filters and DBSCAN Clustering**

Firuzi K., Vakilian M.

12th International Conference on the Properties and Applications of Dielectric Materials (ICPADM), Xian, China, 20 - 24 May 2018, pp.68-71

**III. Identification of Free Conducting Particles in Transformer Oils using PD Signals**

Firuzi K., Parvin V., Vakilian M.

2015 IEEE 11th International Conference on the Properties and Applications of Dielectric Materials (ICPADM), Sydney, Australia, 19 - 22 July 2015, pp.724-727

**IV. Identification of metal particles in transformer oil using partial discharge signals**

Firuzi K., Parvin V., Vakilian M.

23rd Iranian Conference on Electrical Engineering, Tehran, Iran, 10 - 14 May 2015, pp.1602-1606

## **Metrics**

Publication: 11

Citation (WoS): 87

Citation (Scopus): 85

H-Index (WoS): 4

H-Index (Scopus): 4